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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/784,688	02/14/2001	Peter L. Chu	PA1474US	4538
22830 75	90 05/14/2004		EXAMINER	
CARR & FERRELL LLP 2200 GENG ROAD			PHU, PHUONG M	
PALO ALTO, CA 94303			ART UNIT	PAPER NUMBĘŖ
ŕ			2631	4
			DATE MAILED: 05/14/2004	1 4

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)		
	09/784,688	CHU, PETER L.		
Office Action Summary	Examiner	Art Unit		
	Phuong Phu	2631		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	correspondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed /s will be considered timely. I the mailing date of this communication. D (35 U.S.C. § 133).		
Status	,	* *		
 Responsive to communication(s) filed on <u>17 September 2003</u>. This action is FINAL. 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i>, 1935 C.D. 11, 453 O.G. 213. 				
Disposition of Claims	·			
 4) Claim(s) 1-38 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 10,11,15-18,22-26,32 and 34-38 is/are allowed. 6) Claim(s) 4-7,12-14,19-21,27-31 and 33 is/are rejected. 7) Claim(s) 1-3,8 and 9 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 				
Application Papers				
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	epted or b) objected to by the drawing(s) be held in abeyance. Se ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). ejected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 2.3.	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:			
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DETAILED ACTION

Claim Objections

1. Claim 1 is objected to because of the following informalities: it appears that the limitation " $X_j^f = \dots a_n^f X_{j-n}$ " on line 16 should follow the limitation "according to the equation:" on line 17. Appropriate correction is required. Claims depended on claim 1 are, therefore, also objected.

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 3. Claims 4-7, 12-14, 19-21, 27-31 and 33 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

Claim 4 recites the limitation "the filter tap coefficients a^f_1 is updated ... F_2 being a nonlinear function" on lines 3-12. This limitation is not disclosed in the specification of the instant application.

Similarly, in claims 12, 19, 27 and 33, the limitation "the filter tap coefficients a_1^f is updated ... F_2 being a nonlinear function" is not disclosed in the specification of the instant application.

Claims, (if any) depended on above claims, are therefore also rejected.

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- 4. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 5. Claims 4-7, 12-14, 19-21, 27-31 and 33 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 4 recites the limitations "the filter tap coefficient a_1^f " on line 3 and the filter tap coefficient a_2^f " on line 8. It is unclear whether these limitations refer to "filter tap coefficient a_n^f corresponding to the whitening F_e " on line 19 and 20 of claim 1 or refer to "filter tap coefficient a_n^f corresponding to the whitening F_d " on line 45 and 46 of claim 1.

Claim 4 recites the parameters " a_1^{fj+1} " on line 5, " a_2^{fj+1} " and " a_1^{fj} " on line 10. These parameters are not defined in the claim.

Similarly, in claims 12, 19, 27 and 33, the parameters " a_1^{fj+1} ", " a_2^{fj+1} " and " a_1^{fj} " are not defined in the claims.

Claims, (if any) depended on above claims, are therefore also rejected.

Allowable Subject Matter

- 6. Claims 10, 11, 15-18, 22-26, 32, 34-38 are allowed.
- 7. Claims 1-3, 8 and 9 would be allowable if rewritten or amended to overcome the objection, set forth in this Office action.

Conclusion

8. References (4,860,315), (4,518,950), (4,554,670) and (4,475,227) are cited because they are pertinent to the claimed invention.

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9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phuong Phu whose telephone number is 703-308-0158. The examiner can normally be reached on M-F (8:30-6:00) First Monday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mohammad Ghayour can be reached on 703-306-3034. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Phuong Phu Primary Examiner Art Unit 2631

Phuong Phu 04/23/04

PHOUNG PHU PRIMARY EXAMINER

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